### **PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY

То:		PCT	
see form PCT/ISA/220		INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)
		Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A See paragraph 2 below	
International application No. PCT/EP2004/001069	International filing date (d. 05.02.2004	ay/month/year)	Priority date (day/month/year)
International Patent Classification (IPC) or H02P7/635, H02P7/62, H02P21/00		and IPC	
Applicant HONEYWELL INTERNATIONAL I	NC		
□ Box No. IV Lack of unity of Box No. V Reasoned state applicability; cit □ Box No. VI Certain docume □ Box No. VII Certain defects □ Box No. VIII Certain observa  2. FURTHER ACTION  If a demand for international prelimentation of the International the applicant chooses an Authorit International Bureau under Rule will not be so considered.  If this opinion is, as provided above submit to the IPEA a written reply	inion  ment of opinion with regard invention  mement under Rule 43bis.1  ations and explanations sents cited  in the international applications on the international  minary examination is mall Preliminary Examining Ay other than this one to be 16.1 bis(b) that written opinion of the internation of	d to novelty, inventive  (a)(i) with regard to resupporting such state  cation I application  ade, this opinion will a chuthority ("IPEA"). Ho ethe IPEA and the conions of this Internation  tten opinion of the IP cate with amendment	usually be considered to be a sowever, this does not apply where hosen IPEA has notifed the ponal Searching Authority
Name and mailing address of the ICA.			

Name and mailing address of the ISA

**Authorized Officer** 

<u>)</u>

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/001069

Box No. I Basis of the opinion
<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.</li> </ol>
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material:
☐ a sequence listing
□ table(s) related to the sequence listing
b. format of material:
☐ in written format
☐ in computer readable form
c. time of filing/furnishing:
☐ contained in the international application as filed.
filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
I. Additional comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/001069

В	ox No. II	Priority			
1. 🖾	The fol	lowing document l	nas not be	en furnishe	ed:
	⋈	copy of the earlie	r application	on whose p	riority has been claimed (Rule 43bis.1 and 66.7(a)).
		translation of the	earlier app	lication wh	ose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).
	Consec neverth	quently it has not b leless been establ	een possil ished on th	ble to cons ne assump	ider the validity of the priority claim. This opinion has tion that the relevant date is the claimed priority date.
2. 🗆	has be	inion has been es en found invalid (R ite indicated above	lules 43 <i>bis</i>	3.1 and 64.1	ority had been claimed due to the fact that the priority claim  1). Thus for the purposes of this opinion, the international the relevant date.
	9				
3. Ac	_	bservations, if nec	essary:		
3. Ac	_	bservations, if nec	essary:		
3. Ac	_	bservations, if nec	essary:		
Вс	dditional o	Reasoned state	ement und	ler Rule 43	Bbis.1(a)(i) with regard to novelty, inventive step or no supporting such statement
Bo inc	dditional o	Reasoned state	ement und	ler Rule 43 explanatio	Bbis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement
Bo inc	dditional o ox No. V dustrial a	Reasoned state	ement und ions and e	ler Rule 43 explanatio Claims	Sbis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement  2-6,8-20
Bo inc	ox No. V dustrial a	Reasoned state	ement und ions and e	explanatio	ns supporting such statement
Bo ine . Sta	ox No. V dustrial a	Reasoned state pplicability; citat	ement und ions and e Yes:	Claims Claims	ns supporting such statement  2-6,8-20
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Bo inc	ox No. V dustrial a atement ovelty (N)	Reasoned state pplicability; citat	Yes: No:	Claims Claims Claims Claims Claims	2-6,8-20 1,7

see separate sheet

Form PCT/IPEA/237 (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/001069

#### Re Item V.

The following document is referred to in this communication:D1: US 5 907 228 A (BORNARD GUY ET AL) 25 May 1999 (1999-05-25)

#### 2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parenthesis applying to this document):

a system which is 'suitable for' driving a compressor in which the different voltages are generated to drive an induction machine(1). In the DTC (direct torque control) method of D1 these voltages represent the demanded torque and flux of a particular setpoint. Fig. 1 and the table in column 2 of D1 illustrate this.

#### 3 INDEPENDENT CLAIM 7

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parenthesis applying to this document):

a system which is 'suitable for' driving a compressor in which the different voltages are generated to drive an induction machine(1). D1 teaches a system and method which distinguishes between steady state and transient modes. In particular column 2 lines 18 to 29 described the control strategy in the transient mode and column 2 lines 40 to 54 describe the control strategy in the steady state mode of control.

#### 4 DEPENDENT CLAIMS 2-6 AND 8-20

The dependent claims appear to add little to the independent claims that would distinguish the dependent claim from known subject matter of the prior art in such a way as to fulfil the requirements of inventive step (Article 33(3) PCT).